

## CLAIMS

1. A multilayer ceramic capacitor comprising a laminate including alternately stacked dielectric layers of a sintered compact composed of crystal particles of a dielectric porcelain composite and internal-electrode layers, wherein the dielectric porcelain composite at least comprises a primary constituent containing barium titanate; a first accessory constituent composed of at least one of magnesium oxide ( $MgO$ ), calcium oxide ( $CaO$ ), barium oxide ( $BaO$ ), and strontium oxide ( $SrO$ ); a second accessory constituent containing silicon oxide as a major constituent; a third accessory constituent composed of at least one of vanadium oxide ( $V_2O_5$ ), molybdenum oxide ( $MoO_3$ ), and tungsten oxide ( $WO_3$ ); a fourth accessory constituent composed of an oxide of R1 (wherein R1 is at least one of Sc, Er, Tm, Yb, and Lu); a fifth accessory constituent composed of  $CaZrO_3$  or a combination of  $CaO$  and  $ZrO_2$ ; and a sixth accessory constituent composed of an oxide of R2 (wherein R2 is at least one of Y, Dy, Ho, Tb, Gd, and Eu); in the case of 100 moles of barium titanate, there are 0.1 to 3 moles of the first accessory constituent, 2 to 10 moles of the second accessory constituent, 0.01 to 0.5 moles of the third accessory constituent, 0.5 to 7 moles of the fourth accessory constituent (wherein the number of moles of the fourth accessory constituent is that of R1 alone), more than 0 but not more than 5 moles of the fifth accessory constituent, and more than 0 but not more than 9 moles of the sixth accessory constituent; and the crystal particles constituting the dielectric layers have an average particle diameter of not less than 0.2  $\mu m$  and less than or equal to 0.55  $\mu m$ .
2. The multilayer ceramic capacitor according to claim 1, wherein the dielectric porcelain composite further comprises a seventh accessory constituent composed of manganese oxide ( $MnO$ ) or chromium oxide ( $Cr_2O_3$ ) and in the case of 100 moles of

barium titanate, there are 0.01 to 0.5 moles of the seventh accessory constituent.

3. The multilayer ceramic capacitor according to claim 1 or 2, wherein the average particle diameter of the crystal particles constituting the dielectric layers is in the range of not less than 0.2  $\mu\text{m}$  and less than or equal to 0.35  $\mu\text{m}$ .

4. The multilayer ceramic capacitor according to any one of claims 1 to 3, wherein the difference ( $D_{100} - D_{50}$ ) between the maximum particle diameter ( $D_{100}$ ) and the average particle diameter ( $D_{50}$ ) of the crystal particles constituting the dielectric layers is 0.4  $\mu\text{m}$  or less.